



MZ Biolabs
2102 N Country Club Rd
Tucson, AZ 85716
contact@mzbiolabs.com
www.mzbiolabs.com

Certificate of Analysis

BPC-157 (Bepecin) 5mg

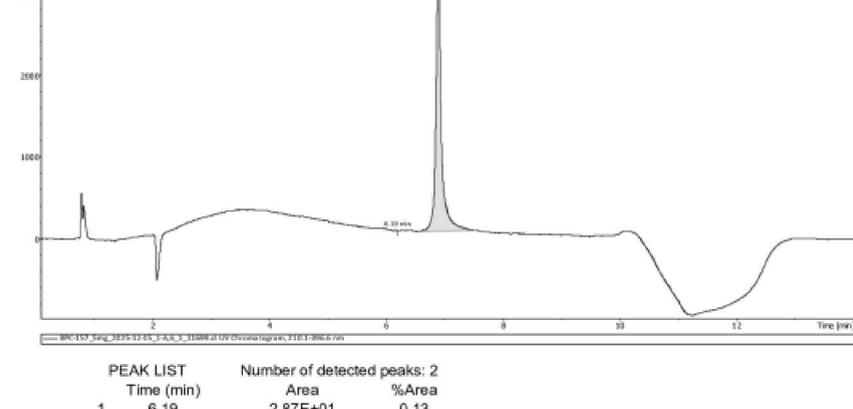
H-Gly-Glu-Pro-Pro-Gly-Lys-Pro-Ala-Asp-Asp-Ala-Gly-Leu-Val-OH

Compound : BPC-157
Lot number : 7291048563
Analysis date : 2025-12-29
Purity % : 99.87%
Method : HPLC-UV-MS

Client : American Pharmaceutical
info@americanpharmaceutical.us
<https://americanpharmaceutical.us>

PubChem CID: 9941957
<https://pubchem.ncbi.nlm.nih.gov/compound/9941957>

High Performance Liquid Chromatography (HPLC) UV – Purity Test



Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
MZ Biolabs
contact@mzbiolabs.com

Ken Pendarvis
2026-01-20



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Certificate of Analysis

GHK Copper 50mg

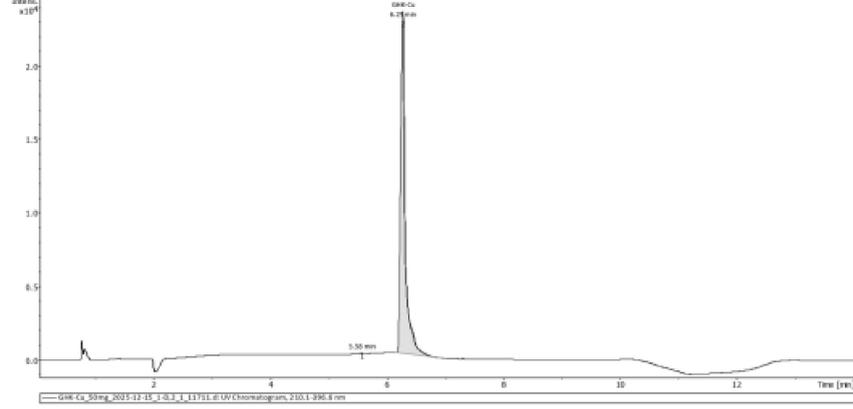
copper;(2S)-6-amino-2-[[[2S)-2-[(2-aminoacetyl)amino]-3-(1H-imidazol-5-yl)propanoyl]amino]hexanoate

Compound : GHK-Cu
Lot number : 4810367529
Analysis date : 2025-12-29
Purity % : 99.89%
Method : HPLC-UV-MS

Client : American Pharmaceutical
info@americanpharmaceutical.us
<https://americanpharmaceutical.us>

PubChem CID: 71587328
<https://pubchem.ncbi.nlm.nih.gov/compound/71587328>

High Performance Liquid Chromatography (HPLC) UV – Purity Test



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The GHK-Copper complex dissociates slightly during HPLC resulting in this normal GHK peak immediately after GHK-Cu.

This is normal.

Note: Injectable peptides may contain salts and sugars to aid in solubility and act as pH buffers. These are not normally detected using UV and are not considered impurities.



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GHK Copper 50mg

copper;(2S)-6-amino-2-[[[2S)-2-[(2-aminoacetyl)amino]-3-(1H-imidazol-5-yl)propanoyl]amino]hexanoate

PubChem CID: 73587
<https://pubchem.ncbi.nlm.nih.gov/compound/73587>

Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

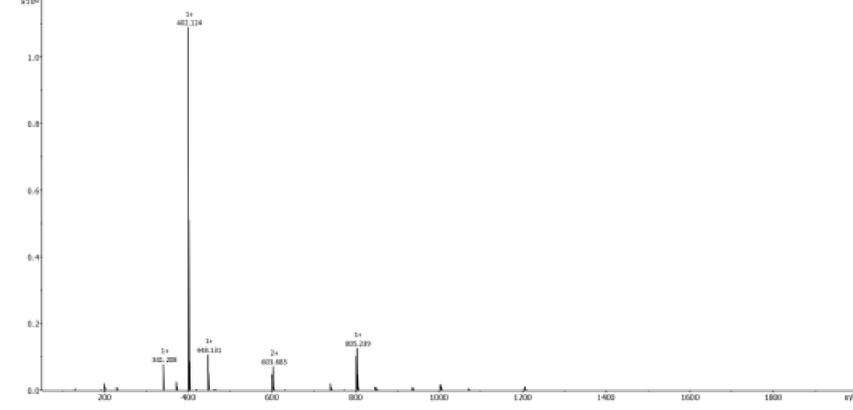
Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass : 402.10 Da

Measured monoisotopic mass : 402.12 Da

Molecular weight confirmed

Note: Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides. The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.



Analysis Performed by
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2026-01-20



Certificate of Analysis #10644 | AMERICANPHARMACEUTICAL

Client: Americam Pharmaceutical
info@americanpharmaceutical.us
<https://americanpharmaceutical.us>

Sample received: 07/07/25
Analysis conducted: 07/11/25

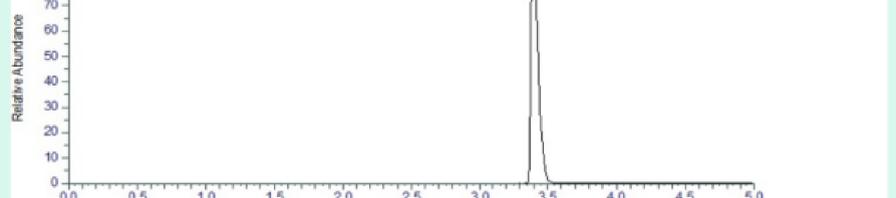
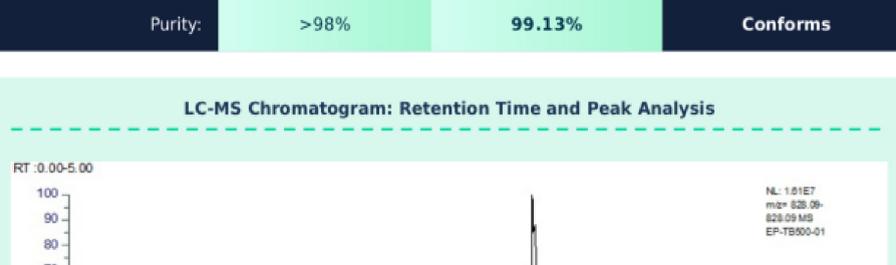
Compound:	Thymosin Beta-4 (TB500)	CAS:	77591-33-4
Batch/Lot #:	4382765190	Formula:	C212H350N56O78S
Appearance:	White lyophilized powder	Mol Wt:	4963 g/mol

Method: Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

Thymosin Beta-4 (TB500) | C212H350N56O78S | CID 45382195

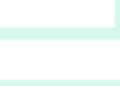
	Specification	Result	
Identity Test:	Thymosin Beta 4	Thymosin Beta 4	Conforms
Quantity:	10 mg ± 10%	12.19 mg	Conforms
Purity:	>98%	99.13%	Conforms

LC-MS Chromatogram: Retention Time and Peak Analysis



Analysis Performed by
Dr. Roberto Marin
Analytical Chemist
contact@bioregen.com

COA #10644
Security Key **AMERICANPHARMACEUTICAL**
bioregen.com/verify



Roberto Marin